

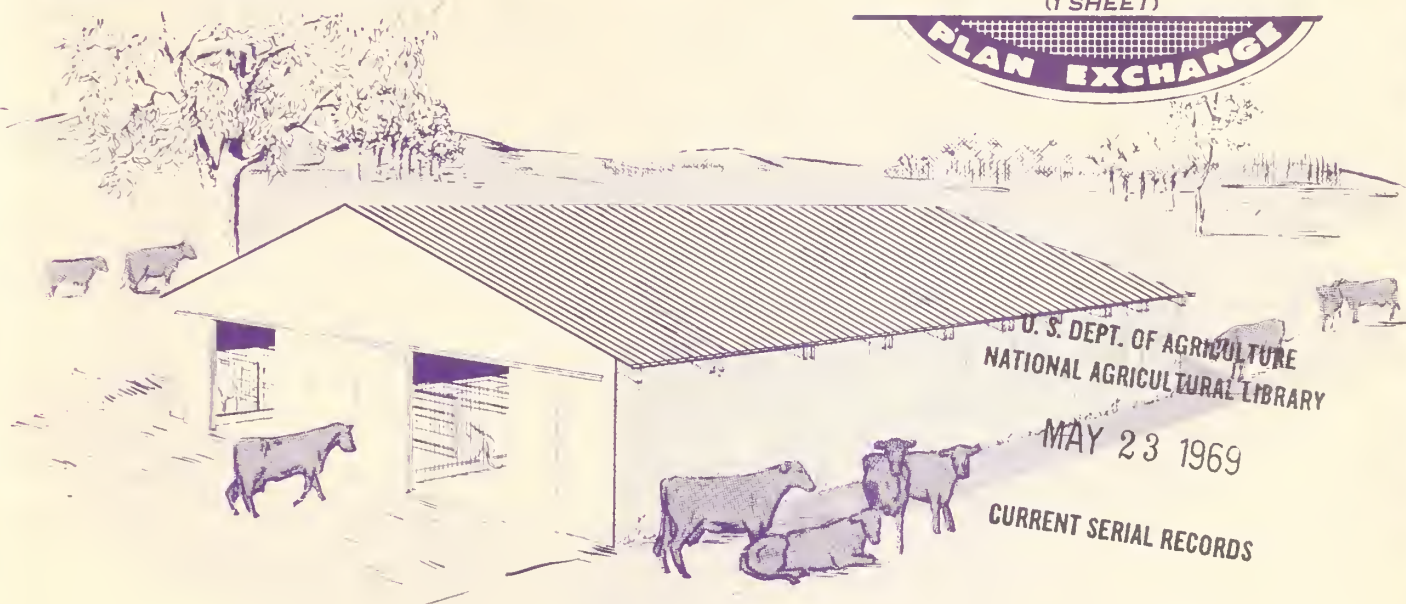
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11

FREE-STALL BARN For Cattle

COOPERATIVE
FARM BUILDING
Plan No. 6050
(1 SHEET)
PLAN EXCHANGE



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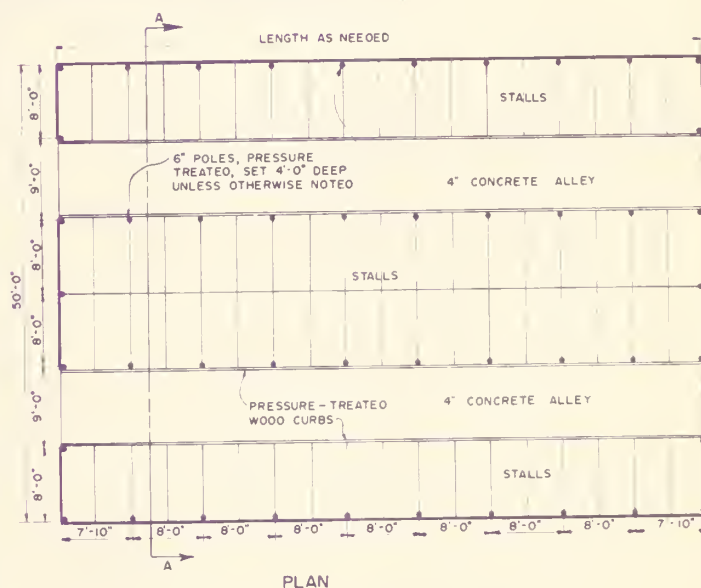
CURRENT SERIAL RECORDS

This free-stall barn plan provides only the design for the resting area of a dairy cow handling system. It can be used with several different types of milking and feeding facilities.

The design was developed in Wyoming and is intended for use in areas where the snow and wind loads on the roof do not exceed 20 pounds per square foot. Consult your county agricultural agent or State extension agricultural engineer for information regarding the loads that may be expected to occur in your particular locality.

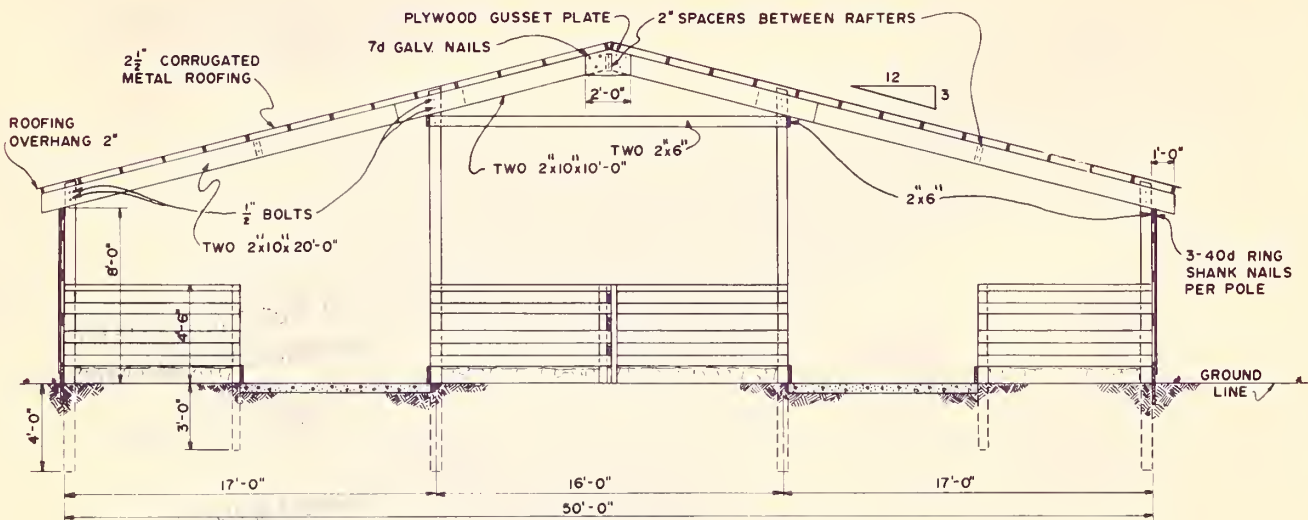
The building is 50 feet wide, allowing four rows of stalls and two longitudinal litter alleys. The length of the building may be varied in units of 8 feet. Eight stalls are added, or subtracted, for each unit of length.

Ventilation is provided by wide slot openings between the rafters under the sidewall eaves and by the alley doorways in the end walls. In some localities it may be advisable to install a continuous slot ventilator along the ridge of the building for additional air movement.



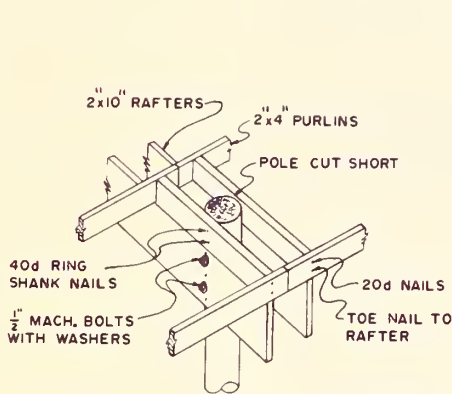
The barn is roofed with corrugated sheet metal; the siding may be of wood or metal, applied vertically; the alleys are paved with concrete; and all other construction is of wood. For durability, the poles and other wood members in contact with the ground or manure must be pressure-treated with a preservative.

construction details

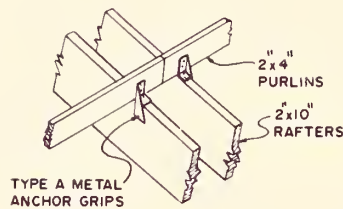


SECTION A-A

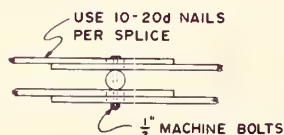
DESIGN LIVE LOAD 20 LB. SQ. FT.



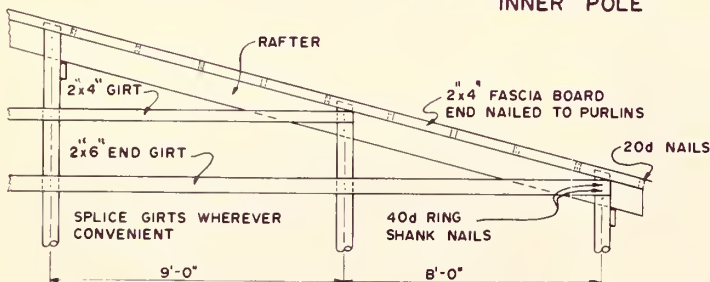
PURLIN TIE AT POLES



PURLIN TIE AT RAFTER



RAFTER ATTACHMENT AT INNER POLE



END WALL FRAMING

NOTE

1. USE STANDARD OR BETTER GRADE DOUGLAS FIR FOR RAFTERS, NATIVE PINE OR FIR FOR PURLINS AND GIRTS.
2. FOR ROOF, ORDER ROOFING MATERIAL SO THAT LAPS ARE OVER PURLINS—ALLOW AT LEAST 6" OVERLAP AT ENDS OF SHEETS. SPACING OF PURLINS NOT OVER 24"

A large scale working drawing may be obtained from the extension agricultural engineer at your State university. There may be a small charge to cover cost of printing.

If you do not know the location of your State university, send your request to Agricultural Engineer, Federal Extension Service, U.S. Department of Agriculture, Washington, D.C. 20250. He will forward your request to the correct university.

ORDER PLAN NO. 6050, FREE-STALL BARN for cattle

